

ing Bull on board, arrived at Bismarck, Dakota and Sitting Bull was given his first

tion of a locomotive. He said he didn't intend to see any more of the iron horse, and wouldn't ride on a special car that was being built for the Northern Pacific, ordered the engineer to transport them to the hotel. After spending the day at Bismarck, the host left for Standing Rock.

William Mulligan, a farmer living near Cascade Station, some seven or eight miles from St. Louis, in St. Louis county, Saturday afternoon stabbed and killed William Hall, a 35-year-old blacksmith, who had come to the town, adding that of Mulligan's. The affair grew out of Postwistle's such remarks on Mulligan's blacksmithing as Joseph Postwistle, a 35-year-old blacksmith, who had come to the town with a pistol. The latter claims that in self-defense he shot Mulligan two or three times with the pistol.

The above results, Mulligan was arrested.

An official dispatch received at Paris from Admiral Conde reports that a battalion of marines was sent to the island of Oahu, expected from Sfax to replace the marines who had occupied the capital of the Island of Oahu.

and considerably nearer the Tripoli frontier than Admiral Conant thinks the appearance of the squadron before Sardinia will be considered by the French Government as a step in the way in order to form a correct opinion of the state of affairs in this part of the northeast coast of Africa.

The British fleet will be sent very soon, and this will bring the French still nearer Tripoli.

MEDICAL.

LADIES

Dr. Butts' Dispensary has been visited by those gentle friends, Mrs. Harriet Parnell, Miss Stoddard and Miss Mary Ann Parnell, who were accompanied by their husbands and Mr. Henry Parnell, all of whom are well.

YOUNG MEN

Dr. Butts' Dispensary has been visited by those gentle friends, Mrs. Harriet Parnell, Miss Stoddard and Miss Mary Ann Parnell, who were accompanied by their husbands and Mr. Henry Parnell, all of whom are well.

PATIENTS TREATED

Dr. Butts' Dispensary has been visited by those gentle friends, Mrs. Harriet Parnell, Miss Stoddard and Miss Mary Ann Parnell, who were accompanied by their husbands and Mr. Henry Parnell, all of whom are well.

[illegible][illegible][illegible]

DE. BUTTS, 19 North 5th St., St. Louis, Mo.

MANHOOD RESTORED.

A victim of early impotence, causing nervous vitality, premature decay, etc., having tried with every known remedy, has discovered a simple and effective remedy, which will restore him to his former vigor. Address J. H. REEVES, 45 Chatham Street, N. Y.

PRESCRIPTION FREE.

Use the specific drug of "Universal Remedies, Ltd." in reality, Proprietor of "Lancet, Descriptive Medical and Pharmaceutical Journal," and "The Medical and Pharmaceutical Directory." Every drug and medicine is obtainable, and sent by express, on receipt of the price. Write for particulars. 125 West Madison Street, Cincinnati, Ohio.

**WILKOFF'S
FEVER
AND
Tonic**

**For Chills and Fever
AND ALL DISEASES**

Prepared by **Mineral Polishing** and **Chemical** Processes.
A WARRANTED CURE.

Price, \$1.00. For sale by all Druggists.

Health is Wealth.

Dr. E. C. HAY'S NERVE AND BRAIN TREATMENT is a specific for Hypertension, Dystonia, Convulsions, Epilepsy, Headache, Mental Depression, Loss of Memory, Spasmodic, Impotence, Irregularities, Cataplexy, Premature Old Age, caused by excessive worry, nervousness, and overwork. It is a cure for all the ills that lead to misery, decay and death. One box will cure recent cases. Each box contains 30 pills for five dollars; send by mail, prepaid, on receipt of price. Write for literature, and a box of six pills for five dollars; send by mail, prepaid, on receipt of price. If your order received by us for six boxes, accompanied by a check for \$30.00, we will send you the first box written guarantee to return the money if the treatment does not effect a cure. Guarantee for the treatment of chronic cases. Write for literature. One bottle of the best Brain and Nerve Tonic, "Mental Drug," 250 Main street, Minneapolis, Twin Cities, Minn. All orders will receive prompt attention.

STOCK POOL

CHOICE LOT OF CLAY PEAZ FOR STOCK POOL

This is the best blue clay pea stock pool on the market.

W. F. BLODE & CO.,
 1000 1/2 N. 1st St., Minneapolis, Minn.

at 1:30, steady; at 2:30, quiet and firm;
at 3:15 weak. Sales, 49,000 bales.

	This Week	Last Week	2 Weeks Ago
Receipts for 3 days:	5,897	6,224	2,322
Exp to Great Britain:	113,362	147,119	99,900
Exp to Continent:	100	63	10
Exp to Foreign:	100	63	10

Total receipts at all United States ports 703,516 bales; same date 1880, 4,900,303 bales; same date 1879, 4,429,780. Increase of receipts at United States ports this year 190,217 bales.

Total foreign exports, 4,423,500 bales; last year, 3,756,650 bales; year before, 3,416,616 bales.

Cotton stock at all United States ports 332,992 bales; last year, 190,261 bales; year before, 190,261 bales.

FINANCE.
The past week has again been very quiet with nothing changing in the monetary position. There is a fair but not eager inquiry for money, and the market is not so strong as the more pressing demands at an early date of the rate of money continues irregular from 6 to 10 per cent; the low rates at New York and London, a certainty of a more supply from London in a month to come, allow of money still being had on Madison street at 6 per cent. There is frequent inquiry about local stock and bonds, but the market is not strong. The views, where holders show any desire to sell, are, which is seldom. Exchange at our bank at 100, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830

MEMPHIS BANK CLEARING		
	Clearence	Balance
August 1	\$5,425 44	17,760 91
August 2	67 168 25	21 56
August 3	30,305 48	36,249 70
August 4	10 00	10 00
August 5	10 00	10 00
August 6	10 00	10 00
August 7	10 00	10 00
August 8	10 00	10 00
August 9	10 00	10 00
August 10	10 00	10 00
August 11	10 00	10 00
August 12	10 00	10 00
August 13	10 00	10 00
August 14	10 00	10 00
August 15	10 00	10 00
August 16	10 00	10 00
August 17	10 00	10 00
August 18	10 00	10 00
August 19	10 00	10 00
August 20	10 00	10 00
August 21	10 00	10 00
August 22	10 00	10 00
August 23	10 00	10 00
August 24	10 00	10 00
August 25	10 00	10 00
August 26	10 00	10 00
August 27	10 00	10 00
August 28	10 00	10 00
August 29	10 00	10 00
August 30	10 00	10 00
August 31	10 00	10 00

the largest volume of business. Share speculation, as usual throughout the entire day, and was not devoid of feature. At the opening of the market, the price of the common stock of our own became weak, and prices declined throughout the rest of the day up to the close. The price of the common stock of the United States, being, of course, considerably higher, showed more stability, and although slightly depressed, was generally at the lowest figures touched during the day. The price of the common stock of the United States, being, of course, considerably higher, showed more stability, and although slightly depressed, was generally at the lowest figures touched during the day. The price of the common stock of the United States, being, of course, considerably higher, showed more stability, and although slightly depressed, was generally at the lowest figures touched during the day.

[illegible][illegible]

supply on hand. Floor has a fair demand for former rates, but expected speculation in wheat may bring some advance. The shipping market is quiet, but the cabbage and cauliflower rates from the prevailing dry weather, which is cutting short all kinds of vegetable crops, have been very scarce and prices are high. The supply of all arriving. Hog prices are quiet, but the market is strong. Chickens are still, except for great strength. Butter is quiet, except for superior stock. Other quotations below are for round lots at the landing and at the railroad depots, and include net weight, drayage, storage, war other expenses outside of the bare freight and charges up to the time of delivery. For smaller quantities, add 10 to 15 per cent. For rates, as they include drayage, storage and profit of the dealer.

FEED-CORN—Sale of 100 sacks at 64 cents; 500 sacks at 63 cents; 1000 sacks at \$13.50. Hay—last sale of good timothy at \$16.50. In store, corn quoted 65 cents, 52c; bran, 90c; 55c; hay, 90c; 60c; prairie, 50c.

FLOUR—Double extra, \$4 25c; 45c; treble extra, \$5 00c; 75c; family, \$6 25c; 60c; 55c; 50c; 45c; 40c; 35c; 30c; 25c; 20c; 15c; 10c; 5c; 0c.

7/20/98 10/ jobbing rates:
 CORNMEAL—Demand light; sales at \$2 1/2¢.
 FRUITS—Oranges, 8¢ a box. Lemon
 juice, 10¢ a gallon. Apples, 10¢ a bushel.
 Peanuts, Virginia, hand-picked, 6¢; Tennessee,
 red, 34¢ a lb. Almonds, 20¢. English wal-
 nuts, 12¢ a lb. Filberts, 22¢ a lb. Brazil
 nuts, 12¢ a lb. Raisins, 8¢ 1/2 a lb. Sun-
 dries, \$563.25 a ton.
 POTATOES—In store, \$2 75¢/3¢ for Tennessee
 and Northern.
 PEAS—In store, California, new, in store,
 75¢ a barrel. Cuban, pea, 1¢ a crate.
 EGGS—Fair supply, generally 13¢, with
 some 14¢.
 APPLIES, Etc.—Apples for shipping, 11¢
 a 50 barrel measure, and Pears 11.00¢ a
 barrel.
 PEACHES—In store, one-third bushel box,
 10¢.
 MISCELLANEOUS—Honey at \$3 50
 a barrel; grits, \$3 50 a barrel. White beans,
 10¢ a 50 lb. mvy, 25¢ a bushel. Pick
 peas, 10¢ a bushel. Beans, 10¢ a bushel.
 Dried peaches, 5¢ a lb. per 25.
 Dried apples, 5¢ a lb. per 25.
 Dried barrels, 9¢ 25¢/30¢; half barrels,
 5¢; small 10¢ a bushel.
 Dried apples, 10¢ a bushel. 2¢ 1/2 a bushel.
 Dried apples, 10¢ a bushel. 2¢ 1/2 a bushel.
 Dried apples, 10¢ a bushel. 2¢ 1/2 a bushel.

3¢; Sugar—Common, 10¢ 5/16; 12¢; medium, 14¢
 BUTTER—Common, 16¢ 10/16; medium, 14¢
 REC. 14¢ 10/16; Factory at 10¢ 11/16; per cwt.
 Rec. 14¢ 10/16; Young America, 16¢.
 HO PRODUCE—Mesa pork, \$19¢ 10/16; cwt.
 \$12 5/16; Bacon, 12¢ 10/16; lard, 12¢ 10/16;
 Bacon, packed—clear sides, 11¢ 12¢; 12¢;
 the, 10¢ 7/8; shoulders, 8¢; loins, 12¢ 1/2;
 Bulk meats, packed—clear sides, \$10 1/2;
 clear ribs, 8¢ 3/4; shoulders, 7¢ 3/4; lard,
 12¢ per cwt. less.
 BEEF—Common, 12¢ 5/16; 12¢ 5/16; 12¢;
 10 lb. pails, 13¢ 5/16; 12¢ 5/16; 10 lb. pails,
 15¢ 10/16; 13¢ 1/2; 11¢ 1/2; 11¢ 1/2.
 GROCERIES—Coffee—Common, 10¢ 10/16; for
 Sugar—Louisiana open kettle, 8¢ 9/16;
 yellow clarified, 9¢ 10/16; of white, 10¢
 molasses, 10¢; cut leaf, 11¢; fine,
 12¢ 10/16; 12¢ 10/16; fair, 42¢ 10/16;
 prime to choice, 47¢ 5/16.
 Tea—Imperial, 56¢ 5/16; Rice—Louisiana,
 10¢ 10/16; 10¢ 10/16; 10¢ 10/16;
 Salt—per car-load, \$15; from store, 11¢

PORT OF MEMPHIS.

STEAMERS LEAVING TO-DAY.

St. Francis River, Mike Davis, Joplin, 5 p.m.
New Orleans... FRED A. BLANKS, Blanks, 5 p.m.
Vicksburg... CITY GREENVILLE, Bryan, 10 a.m.
St. Louis... CITY OF VICKSBURG, Riley, 10 a.m.

WILL LEAVE AS ADVERTISED.

St. Louis Point... JAMES LEW, Wednesday, 5 p.m.
White River... HARD CASH, Wednesday, 5 p.m.
Arkansas River... PLOW BOY, Wednesday, 5 p.m.

MOVEMENTS AT THE LEVEL.

Arrivals—Grand Tower, Vicksburg; St. Louis
Dust, St. Louis; Ste. Genevieve, St. Louis
James Lee, Fries Point; Katie Hooper, A.
James City; City of Vicksburg, Vicksburg

RECEIPTS YESTERDAY.
 U. P. Schenck—295 casks oil, 10 hhds sugar, 32 hbs pitch.
 Katie Hooper—14 bale cotton, 224 cask cotton-seed, 9 cask oil, 50 pkgs sundries.
 Gold Dust—320 dry bbs, 45 casks mearles, 25 pkgs sundries, 10 pkgs lard, 5 bale cotton, 44 pkgs sundries.
 James Lee—24 bale cotton, 21 bags seed cotton, 253 casks cotton-seed, 2 cows and 2 calves, 28 plunders.
 St. Genevieve—253 bbls flour, 250 bbls meal, 45 casks and boxes meat, 165 rolls hay, 50 pkgs sundries, 200 sacks corn, 700 sacks flour, 50 pkgs sundries.

RIVULETS.
Colonel Robert Speed returned from
Louis yesterday.
The Virgie Lee is the Friday packet for
the Ohio river.
The Virgie Lee, for Cincinnati for the
next, passed Evansville yesterday afternoon.
Captain J. J. Darragh, of the Dean Adams
came up by rail from Vicksburg yesterday.
Receipts by the river since our last report
56 bales cotton, 21 bags seed-cotton, 477 rack
cotton.
The Pisca arrived Sunday evening from
Chester, Illinois, with a ton of stone for paving
on the Plow Boy, Captain E. B. Smith, is the
Friday packet for all points on Arkansas
river.
The U. P. Schenck, from New Orleans
arrived yesterday morning for Cincinnati
and Louisville.
Major John D. Adams and Captain James

The Mike Davis, Captain O. K. Joplin, and the crew of the *Mike Davis*, left at 8 o'clock for a sail on the St. Francis river. A. L. Banning is her attentive clerk.

One of the darksies of the Oceola Bell said yesterday morning: "How can I get a hundred and fifty dollars for a week's work; now what is my day?"

Steamboats were plenty around the Peabody last night, and you could hear a steamboat whistle at any hour of the night; now that is the way of talk, but previous little of real news.

The City of Greenville, Captain J. J. Ryan, is the Anchor-line packet this morning at 8 o'clock for Cape Fear and the beautiful Queen of the South is her clerk.

The new steamer City of Vicksburg, Captain Robert K. Riley, is the Anchor-line packet this morning at 8 o'clock for Cape Fear and the beautiful Queen of the South is her clerk.

The Boston, Fleetwood, R. B. Spring, Red Bluffs, War Eagle, and sundry other boats, are named from which to select a

The mail for Ocoella, heretofore carried by the Ocoella Belle, was taken out yesterday by the Ste. Genevieve, and will be carried by the Anchor-line until a boat can be secured by the Anchor-line, which will be within a short time.

Captain Eugene B. Smith and Pilot Elsie Evans were like Trojans fighting the Hesperides in the hard chase, Captain Ed C. Postal, who was found in port to-day, and leaves again tomorrow evening at 5 o'clock for all points of the compass, and Charles M. Postal has charge of her office.

The burning of the Idlewild will necessitate the continuance of the Dean Adams line for several weeks longer. As soon as another boat is secured she will be handed off to paint.

The Fred A. Blanks, Captain J. W. Blankenship, the Anchor-line packet, is creating a stir in the city by her new and improved outfit, and all intermediate landings, A. A. McVernon presides in her office, assisted by Henry Seay.

one Sunday night. Mr. Keefe, of the Signum Dei Service office, also rendered efficient aid to the gentlemen named.

Some of the colored pirates down about the mouth of the river from the mouth of the Ohio to the mouth of the Osceola Belle after it was landed, were taken to go through the boat's after, but we were unable to find a couple of them. The boat was taken before the scheme could be put into execution.

Lake Providence Herald: The river pirates have been so numerous that it is thought that the mail boats will not be able to deliver their mails at Ben Lomond, the bar having formed so rapidly and in so close proximity to the mouth of the river that it is probable the possibility of their landing there.

On her way up from here the lighthouse tender Joseph Henry changed the position of the light of the following three lights between the mouth of the river and the mouth of the Ohio: Foot of the field; Keiley's light was moved from one hundred and fifty yards, and was moved to a point that was removed to near the foot of the field.

Passengers and shippers for the Ohio river

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show in their calling, but their efficiency should not permit them to become reckless. Their duty was to save the lives of the men, as was shown in front of our city this morning. The steamer Pittsburgh had dropped down to transfer some freight to the latter boat, and was in the act of doing the latter boat was forced to lie well off in the river. Nevertheless, there was plenty of room for her to pass. But when the big towboats pushing heavy loaded barges of coal came down in a bunch this morning, serious consequences threatened. The Pittsburgh, which had been had remained at the wheel, immediately saw the danger, and the captain began summoning the boat was forced forward, not being able to get all the way up the river. But all right, but the second flanked her too directly into the place just vacated by the Pittsburgh and came so close to her that she was forced to turn back to avoid the other. There was some lively blowing and backing for the time being, and it looked like a disaster was close at hand, but, just as the Pittsburgh was about to be crushed, the towboat succeeded in floating by, a

A



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[illegible][illegible]

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STAUNTON



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100

1994

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor creases and discoloration, characteristic of old paper. The right edge of the page shows the binding of the book. There is no text or other markings on the page.

[illegible]

1170

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor discoloration and faint, illegible markings, possibly from a previous page or a watermark. The left edge of the page shows the binding of the book.

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1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is located in the thylakoid membranes of chloroplasts.

2. *Chlorophyll b* (Chl b) is an accessory pigment that absorbs light energy in the blue and orange-red regions of the visible spectrum. It transfers the absorbed energy to Chl a for use in photosynthesis. Chl b is also located in the thylakoid membranes.

3. *Carotenoids* are a group of pigments that absorb light energy in the blue and green regions of the visible spectrum. They include carotenes (orange) and xanthophylls (yellow). Carotenoids transfer energy to Chl a and also play a role in protecting the photosynthetic apparatus from damage by excess light.

4. *Xanthophylls* are a subset of carotenoids that absorb light energy in the blue and green regions of the visible spectrum. They are involved in energy transfer and photoprotection.

5. *Anthocyanins* are water-soluble pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors in many plants. They are located in the vacuoles of epidermal cells.

6. *Flavonoids* are a large group of plant pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for a wide range of colors in plants, including yellow, orange, and red. They are located in various parts of the plant, including the vacuoles and cell walls.

7. *Proanthocyanidins* (condensed tannins) are a type of flavonoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the brown and black colors in many plants. They are located in the cell walls and vacuoles.

8. *Anthoxanthins* are a type of flavonoid that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the white and yellow colors in many plants. They are located in the cell walls and vacuoles.

9. *Anthraquinones* are a type of pigment that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red and orange colors in many plants. They are located in the vacuoles of epidermal cells.

10. *Anthrazones* are a type of pigment that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red and orange colors in many plants. They are located in the vacuoles of epidermal cells.